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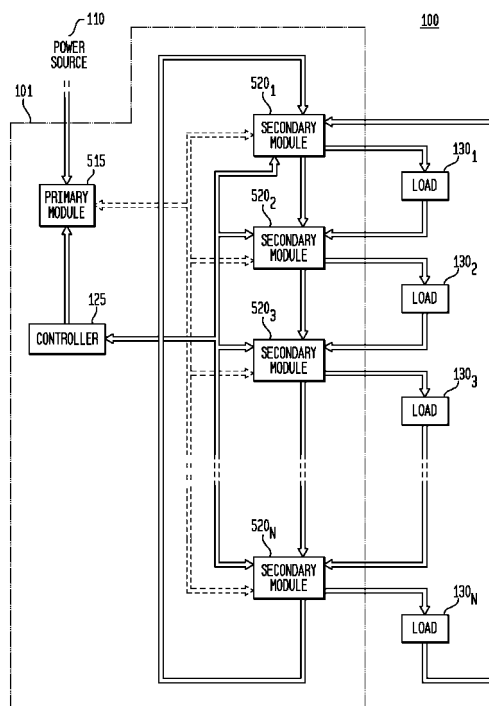
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(54) **Apparatus, method and system for providing power to solid state lighting**

(57) An apparatus, method and system are disclosed for supplying power to a load such as a plurality of light emitting diodes. An exemplary apparatus comprises a primary module (515), a first secondary module (520<sub>1</sub>) couplable to a first load (130<sub>1</sub>), and a second secondary module (520<sub>2</sub>) couplable to a second load (130<sub>2</sub>). The primary module (515) comprises a transformer having a transformer primary. The first secondary module comprises a first transformer secondary magnetically coupled to the transformer primary, and the second secondary module comprises a second transformer secondary magnetically coupled to the transformer primary, with the second secondary module couplable in series through the first or second load to the first secondary module. When energized by a power source (110), the first secondary module (520<sub>1</sub>) has a first voltage polarity and is couplable in a series with the first load (130<sub>1</sub>) configured to have an opposing, second voltage polarity, which substantially offset each other to provide a comparatively low resultant voltage level.

**FIG. 2**





## EUROPEAN SEARCH REPORT

Application Number  
EP 09 16 9401

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			H05B
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>8 August 2011</b>	Examiner <b>João Carlos Silva</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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